









Utah Governor's Office of Economic Development



**Outdoor Products & Recreation** 











BUSINESS RESOUCE CENTERS • CAPITAL FORMATION • CENTERS OF EXCELLENCE • CORPORATE INCENTIVES UTAH • UTAH FILM COMMISSION • INTERNATIONAL DEVELOPMENT OFFICE • OFFICE OF CONSUMER HEALTH SERVICES • PROCUREMENT ASSISTANCE • OFFICE OF RURAL DEVELOPMENT • STATE SCIENCE ADVISOR • UTAH OFFICE OF TOURISM





## **ACTIVE OUTDOOR RECREATION**

Contributes \$5.8 billion annually to Utah's economy

Supports 65,000 jobs across Utah

Generates nearly \$300 million in annual state tax revenues

Produces nearly \$4 billion annually in retail sales and services across Utah — accounting for almost 5% of gross state product







# Cluster Strategy & Out Comes

Promote Utah as "Place" for Outdoor Business

Target segments of Outdoor Industry

Visit Outdoor business in the state

Bicycle. Ski, Climbing, Camping

Recruit quality Outdoor companies

Involve various stake holders in Outdoor Ind

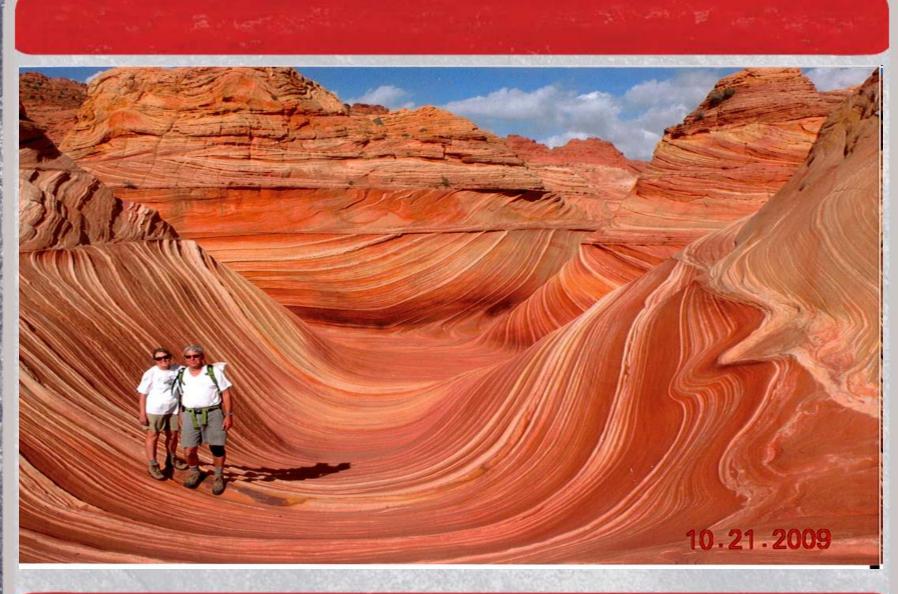
Local officials

Outdoor organizations & committees

Recent wins: Amer, Rossignol, Ortovox, QBP

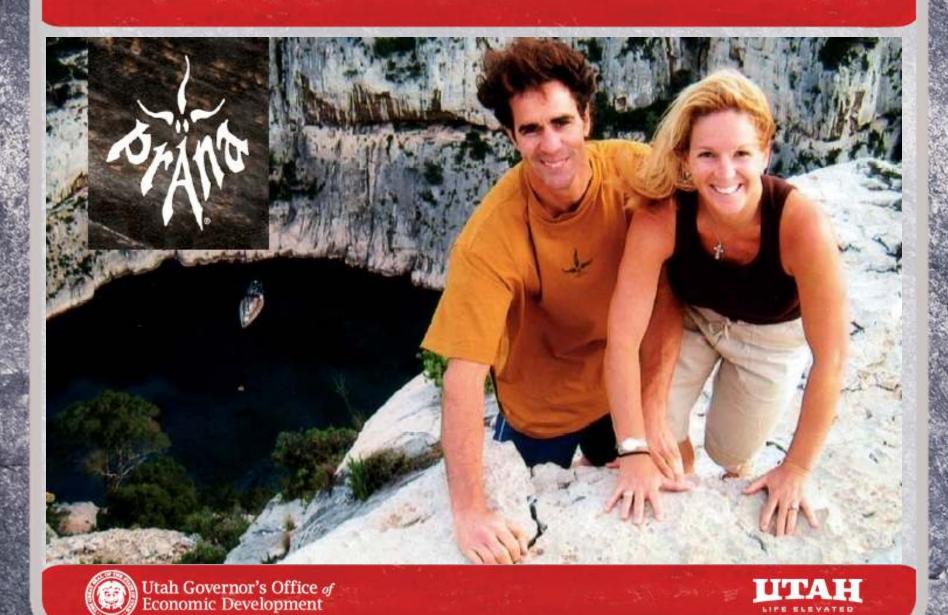












# **Utah Bicycle Industry Group**









# Utah Governor's Office of Economic Development

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# **Eco-Working Group (EWG)**

Formed in 2007 to explore issues of **environmental sustainability** related to the **outdoor industry**.

**Purpose**: support a world where we live, recreate and do business in harmony with our land, air, water and communities.

**Vision**: finding solutions, improve our environmental footprint and protect our valuable earth for future generations.

Mission: develop environmental impact evaluation tools, programs, education and communication to stakeholders and consumers that will direct product life cycle and informed purchasing decisions.



### 146 Member Companies and Organizations

(Voting and Non-voting)

**New Balance** 

Nike

**Brooks Sports** 

Keen

Timberland

Patagonia

Chaco

GoLite

Merrell

EPA

Sugoi

Levi Strauss & Co.

Outdoor Research

The North Face

REI

3M

W.L. Gore

Bonneville Environmental Foundation

Zero Waste Alliance



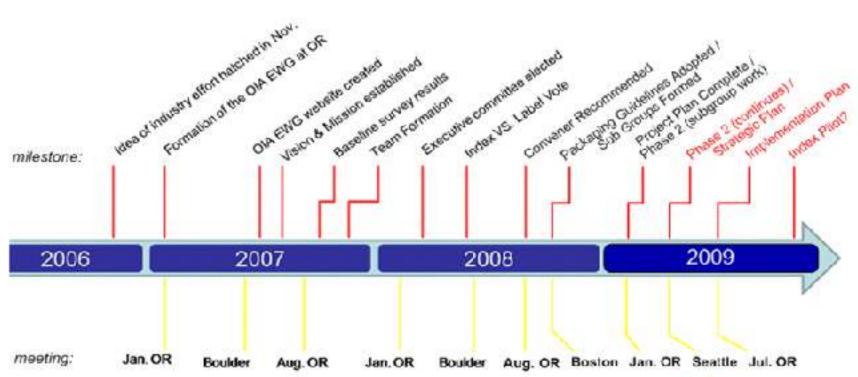
#### EWG - Index Framework

#### "Product Eco-Benchmarking Toolkit" Eco Working Group (EWG) - Index Framework - V.2.6 Consumer Education. Engagement, and Outreach Supply Chain Packaging & Maledais (embeded) Supply Chain isonsportation and Logistics (embeded) Moterialz Product Mig Consumer Tronsport & Dee and End of Life Product Packaging Distribution Service Level \*atedals (the Index) Metric Lenses (points of measure) Chemistry/ Chemistry. Energy Use **Diodivers** by Toolca -Tosks -Values Lenses (points of corporate policy and strategy) 🜙 Company Accountability Reporting Dispession Continue Company Design Philosophy Durability and Longevill Innovation Company Level **Company Foundation** Out of Company Owned & Operated Infrastructure Company Social Compliance Program Scope (Non-product specific)



### **Timeline and Navigation**

#### Eco Index Major Milestones





### **EWG Packaging Team Work Plan**

#### PACKAGING GUIDELINES

 qualitative principles and/or best practices to be used as an educational tool, promoting continuous improvement for companies and suppliers

#### METRICS & INDICATORS

 to be used to assess environmental impact and measure improvement

#### SCORECARD

 standardize scoring methodology to benchmark, drive continuous improvement, and aid in decision making



METRIC - MATERIAL
USE
Substrate - Paper
(kg) used in unit of pkg





# Intro to Packaging Engineering



design		key	examples			
objective		question	of strategy			
	technical performance	does the package protect the product?	<ul> <li>balance need with over-engineering</li> <li>consider the whole packaging system</li> <li>design for probable scenarios not worse case</li> <li>research new technologies</li> </ul>			
	cost	is the design cost-effective?	align the cost with target market & margins     use materials and energy efficiently     amortize cost over lifecycle			
	appearance	does the design communicate effectively?	<ul> <li>rethink assumptions</li> <li>design for communication</li> <li>weigh consequences</li> </ul>			

# Intro to Packaging Engineering



design		key	examples				
objective		question	of strategy				
	optimize resources	does the design optimize materials and energy?	» practice source reduction     » use recycled content     » design for transport				
	responsible sourcing	has the material been produced and delivered responsibly?	» design with environmental best practices     » design with fair labor trade practices     » design with virgin renewable materials from a certified managed source (FSC)				
STO .	resource recovery	where will the materials go after use?	» design to be disassembled     » design for reuse     » design for recycling				



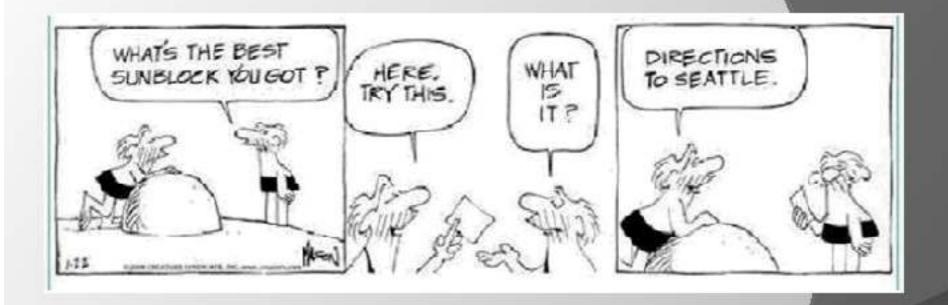
# re-thinking packaging

Erle Abraham Erle Manager

MHA 3009



# re-thinking packaging





Gear and Apparel
The gear you need to do what you love.

Never a bad time to ride

# REDESIGN

In the year....2010

# PACKAGING DESIGN







### REDUCE

- □ Do we need it?
- Minimize material usage or eliminate packaging completely
- Use single materials; avoid laminates or multiple materials
- Substrates shall be separable without the use of tools
- Minimize size of packaging (reduce shipping space)
- Examine the package-to-product ratio





REDUCED

38%

less paper





# Light weight & innovate:

reduce the amount of paperboard being used.

use existing product features to merchandise.





REDUCED

**75%** 

less paper





# Light weight & innovate:

Sell the product;

...not the packaging.





REDUCED

55%

less paper





Evaluate
and audit the
pack method
from the vendor...





REDUCED

20%

empty space





# REDUCED

Use only what is **needed**...

...a **label** for the stuff sack.





# REDESIGN

How can we reduce our bicycle packaging...

What's inside the **box**?





# REDESIGN

How can we reduce our bicycle packaging...

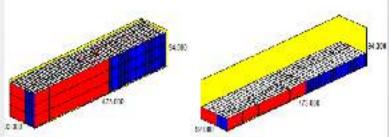
What's inside the **box**?

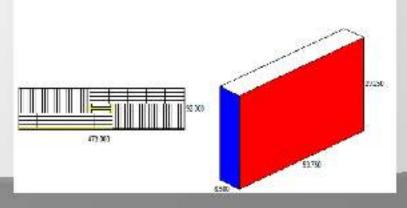


#### **Current:**

#### 270 Units per Container

Cabe Use	M	88.2 4					90		Case / Laver	
Acres Use		14.1 1					3		lever / Lust	
Pallet t	ype	ppelet				3	170		Case / Losd	
		Length.	Nada	Height		Fe:	Green			
Case .	(05)	33.730	8.500	29.257	10	10.101	10.000	35		
Benedict		472.750	87,755	87,792	16	2750,502	2750.500	16		
Losd		477.030	92.005	95.007	in	2700,000	9459,700	15		

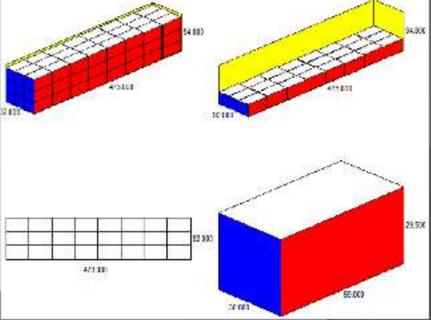




#### New Design:

#### 288 Units per Container

			P				0
Cime theri	91.98				24 R	KT November	Leyer
Area Bood	97.6 %				3	Layer	/ Load
Pallet type	ppidst				72 8	EI Novaras	/ load
	Length	Wadeh	Beight	Set	Gruso		
REI Nova (CD)	39.000	00,000	29,500 in	10,000	10,000	15	
Product	472,000	90.000	HE-500 at	720,000	772,000	LB	
Luci	429,000	92.900	94.000 IL	720.100	7518.000	16	
			-				بالمائد
		No. of Lot, House, or other Party of the Par				- Andrews	





### RESOURCES

#### SUSTAINABLE MATERIALS

- Maximize use of post consumer recycled content, agricultural waste or textile scrap
- Maximize use of sustainable materials
- Use materials with high recyclability rates
- Identify all packaging being used your our vendors



# Buy responsibly... Buy FSC\*





#### Recycled



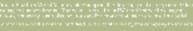
#### Mixed Sources













# RESOURCES

Define the "unknown",

Use certified substrates.





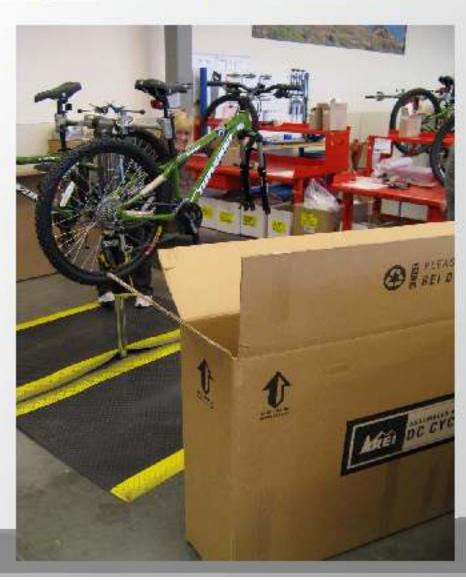
#### REUSE

- Create packaging to be reused within your company infrastructure (retail stores, DC, vendors, etc.)
- Design consumer packaging that has alternative use

If creating reusable packaging consider the following:

How many customers will actually reuse packaging versus throwing it away?





# REUSE

Shipping Boxes are reused in-between our distribution center and retail stores.





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## REUSE

Shipping Boxes are reused in-between our distribution center and retail stores.



#### RECYCLE

- Create packaging compatible with recycling systems Ask: Can a person in the average city recycle this at home or at retail stores?
- Use only a single material/substrate
   Multiple materials reduces recyclability of packaging.
- Avoid laminates, films, wax, additives, and coatings
- Avoid pressure sensitive adhesives, closures, foil stamps, aluminum tags, etc.
- Avoid metallic, UV-cured or fluorescent inks
   Why? They also contaminate the recycle process



# RECYCLING

If creating recyclable packaging:

Educate via the graphics and clearly label for end of life.

Packaging shall declare the approximate recycled content for each material

Recyclable packaging needs to be **recovered** to guarantee that it is recycled.



# Disposal & End-of-Life Labeling



# RETHINK

What materials are used for a multi-tool?



# Disposal & End-of-Life Labeling



# RETHINK

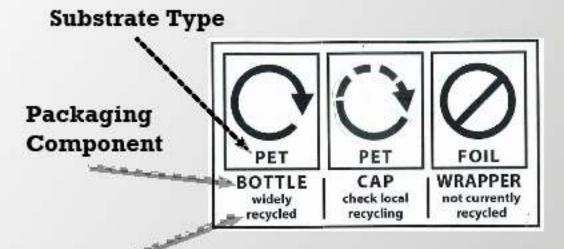
What materials are used for a multi-tool?



## PRODUCT LABELING

CARD

paper - widely recycled plastic - check local area



Recyclability Status





### RETHINK & REDESIGN

- Define the "unknown" learn your packaging substrates' chain of custody.
- Address the recloseabilty in a package's design.
- The vendor may be overcharging for their packaging.
- Reduce where packaging is excessive.
- Educate on recycling our products' packaging whenever possible.
- Innovation do we need the packaging at all?